

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

Claims 1-9 (cancelled)

10. (new) A transgenic non-human laboratory animal over-expressing GPR40 comprising the promoter *lpf1/Pdx1* for controlling the expression of GPR40.

11. (new) The transgenic animal of claim 10, wherein the animal is a rodent.

12. (new) The transgenic animal of claim 11, wherein the animal is a mouse or a rat.

13. (new) A method for testing whether a chemical compound possessing a certain effect for treating diabetes Type 2 using a transgenic laboratory animal comprising the steps of:

- a) providing a chemical compound to be tested;
- b) providing a transgenic laboratory animal according to claim 10;
- c) exposing said animal to said chemical compound; and
- d) determining whether said chemical compound has an effect on the blood glucose level in said animal.

14. (new) A method for testing whether a chemical compound possessing a certain effect for treating diabetes Type 2 using a transgenic laboratory animal comprising the steps of:

- a) providing a chemical compound to be tested;

- b) providing a transgenic laboratory animal according to claim 10;
- c) exposing said animal to said chemical compound; and
- d) determining whether said chemical compound has an effect on the triglyceride level in said animal.

15. (new) A method for testing whether a chemical compound possessing a certain effect for treating diabetes Type 2 using a transgenic laboratory animal comprising the steps of:

- a) providing a chemical compound to be tested;
- b) providing a transgenic laboratory animal according to claim 10;
- c) exposing said animal to said chemical compound; and
- d) determining whether said chemical compound has an effect on the low density lipoprotein (LDL) level in said animal.

16. (new) A method for testing whether a chemical compound possessing a certain effect for treating diabetes Type 2 using a transgenic laboratory animal comprising the steps of:

- a) providing a chemical compound to be tested;
- b) providing a transgenic laboratory animal according to claim 10;
- c) exposing said animal to said chemical compound; and
- d) determining whether said chemical compound has an effect on the high density lipoprotein (HDL) level in said animal.

17. (new) A method for testing whether a chemical compound possessing a certain effect for treating diabetes Type 2 using a transgenic laboratory animal comprising the steps of:

- a) providing a chemical compound to be tested;
- b) providing a transgenic laboratory animal according to claim 10;
- c) exposing said animal to said chemical compound; and

d) determining whether said chemical compound has an effect on the free fatty acids in said animal.

18. (new) A method for testing whether a chemical compound possessing a certain effect for treating diabetes Type 2 using a transgenic laboratory animal comprising the steps of:

- a) providing a chemical compound to be tested;
- b) providing a transgenic laboratory animal according to claim 10;
- c) exposing said animal to said chemical compound; and
- d) determining whether said chemical compound has an effect on the glucose tolerance content in said animal.